

Message Text

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PAGE 01 IAEA V 00877 01 OF 02 031936Z
ACTION OES-06

INFO OCT-01 IO-13 ISO-00 ACDA-07 CIAE-00 INR-07 L-03
NSAE-00 NSC-05 EB-08 NRC-05 FEAE-00 DODE-00 /055 W
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FM USMISSION IAEA VIENNA
TO SECSTATE WASHDC 8607
INFO USERDA HQ WASHDC
USERDA HQ GERMANTOWN RHEGGTN

LIMITED OFFICIAL USE SECTION 1 OF 2 IAEA VIENNA 0877

PASS IO/SCT; OES/ADLER; ACDA/VAN DOREN
USERDA WASHDC FOR AMMONS

E.O. 11652: N/A
TAGS: IAEA, TECH, PARM
SUBJECT: STRUCTURE OF THE SPECIAL SAFEGUARDS IMPLEMENTATION REPORT

1. ITEM 5(A) OF THE PROVISIONAL AGENDA (GOV/1817) FOR THE
FEBRUARY 1977 BOARD OF GOVERNORS MEETING SPECIFIES THAT THE
BOARD WILL BE INVITED TO CONSIDER AND APPROVE THE STRUCTURE,
FORMAT AND CONTENT OF THE PROPOSED SPECIAL SAFEGUARDS
IMPLEMENTATION REPORT PREPARED BY THE DIRECTOR GENERAL.

2. THE MISSION HAS RECEIVED A DRAFT COPY (PURPORTEDLY
A FINAL DRAFT) OF BOARD DOCUMENT WHICH WE ARE ADVISED WILL BE
RELEASED SOON, AND WHICH SETS FOR THE SSIR STRUCTURE
FOR BOARD CONSIDERATION. THE DRAFT DOCUMENT IS BEING
POUCHED TO STATE (ADLER), ACDA (VAN DOREN), AND ERDA
(AMMONS).

3. IN THE DRAFT DOCUMENT, THE SSIR STRUCTURE IS INTRODUCED
BY A NOTE FROM THE DIRECTOR GENERAL WHICH MAKES THE
FOLLOWING POINTS:

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PAGE 02 IAEA V 00877 01 OF 02 031936Z

A. THE FIRST SSIR WILL BE SUBMITTED TO THE BOARD IN
JUNE 1977, COVERING THE AGENCY'S SAFEGUARDS ACTIVITIES
IN 1976.

B. BOTH QUANTITATIVE AND QUALITATIVE ELEMENTS OF

INFORMATION WILL BE PRESENTED IN THE SSIR,
AND IT IS INTENDED TO GIVE AN INDICATION OF THEIR INTER-
CONNECTION IN JUDGING SAFEGUARDS EFFECTIVENESS.

C. TO AVOID REDUNDANCY WITH THE AGENCY'S ANNUAL
REPORT, THE SSIR WILL REFER TO, BUT WILL NOT REPEAT,
THE INFORMATION IN THE ANNUAL REPORT ON THE NUMBERS
AND TYPES OF SAFEGUARDS AGREEMENTS, ON THE NUMBER OF
FACILITIES, LOCATIONS AND OTHER SEPARATE ACCOUNTABILITY
AREAS, ON AMOUNTS OF NUCLEAR MATERIAL UNDER SAFEGUARDS
AND ON THE NUMBER OF STAFF IN THE DEPARTMENT OF
SAFEGUARDS AND INSPECTION. FYI: THE NUMBER OF STAFF
IN DSI IS NOT CURRENTLY PROVIDED IN THE AGENCY'S
ANNUAL REPORT, BUT WILL BE IN FUTURE. END FYI.

D. THE TECHNICAL AND STATISTICAL DATA OUTLINED
IN ANNEX II (PARA 5 BELOW) WILL SERVE AS A BASIS FOR
THE CONTENT AND THE CONCLUSIONS OF THE SSIR. THESE
DATA WILL BE SET OUT IN A SECRETARIAT PAPER WHICH WILL
BE MADE AVAILABLE TO GOVERNORS ON REQUEST.

E. THE BOARD IS INVITED TO CONSIDER AND APPROVE
THE PROPOSED STRUCTURE, FORMAT AND CONTENT OF
THE SSIR, THE OUTLINE OF WHICH IS GIVEN IN ANNEX I
(PARA 4 BELOW).

4. QUOTE. ANNEX I. THE SPEICAL SAFEGUARDS
IMPLEMENTATION REPORT (SSIR). GENERAL PART.
1. INTRODUCTION; 2. FACTORS INVOLVED IN EVALUATING
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PAGE 03 IAEA V 00877 01 OF 02 031936Z

SAFEGUARDS EFFECTIVENESS; 3. INTERPRETATION OF SAFE-
GUARDS INFORMATION; 4. QUALITATIVE CONSIDERATION
AFFECTING EVALUATION.

QJOTE. THIS PART OF THE REPORT WILL ELUCIDATE THE
MAIN FACTORS WHICH ARE TAKEN INTO CONSIDERATION IN
EVALUATING THE FFECTIVENESS OF THE AGENCY'S SAFEGUARDS
AND IN THE INTERPRETATION OF THE INFORMATION OBTAINED
THROUGH SAFEGUARDS ACTIVITIES. AMONG THESE FACTORS ARE:
THE TYPE OF SAFEGUARDS AGREEMENT WHICH IS IN FORCE;
THE AVAILABILITY OF TNE NECESSARY INSPECTION MANPOWER;
THE ACCESSIBILITY OF THE MATERIAL TO BE SAFEGUARDED;
THE AVAILABILITY OF THE NECESSARY VERIFICATION TECHNIQUES
AND EQUIPMENT;
THE DEGREE OF DEVELOPMENT OF THE STATE'S SYSTEM OF
ACCOUNTANCY AND CONTROL;
THE SAFEGUARDS SIGNIFICANCE OF THE MATERIAL
INVOLVED.
SOME OF THE FACTORS WHICH NEED TO BE TAKEN INTO
ACCOUNT MAY NOT BE QUANTIFIABLE BUT MAY NEVERTHELESS

HAVE A SIGNIFICANT EFFECT ON SAFEGUARDS EFFECTIVENESS. THE INTERPLAY OF THESE FACTORS WILL NEED TO BE CAREFULLY WEIGHED IN COMING TO A JUDGEMENT ON THE OVERALL SAFEGUARDS PICTURE. THE BASIC FACTORS INVOLVED IN JUDGING SAFEGUARDS EFFECTIVENESS ARE NOT LIKELY TO CHANGE TO ANY MAJOR DEGREE, SO THAT THIS PART OF THE SSIR WOULD SERVE AS A RELATIVELY PERMANENT AID TOWARDS THE UNDERSTANDING OF THE MAIN PART OF THE REPORT AND WOULD NOT NECESSARILY BE INCLUDED IN SUBSEQUENT REPORTS UNTIL A SUBSTANTIAL REVISION BECAME NECESSARY.

QUOTE MAIN PART - THIS WILL COVER THE PRECEDING CALENDAR YEAR AND CONTAIN THE MAIN CONCLUSIONS AND RECOMMENDATIONS REGARDING SAFEGUARDS ACTIVITIES RELEVANT BOTH TO STATES AND TO DIFFERENT TYPES OF FACILITIES.

QUOTE 1. INTRODUCTION - THIS WILL BE RELATIVELY SHORT LIMITED OFFICIAL USE

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PAGE 04 IAEA V 00877 01 OF 02 031936Z

AND WILL SERVE TO INDICATE ANY MINOR CHANGES IN THE BASIS FOR EVALUATION CONTAINED IN THE GENERAL PART OF THE REPORT.

QUOTE 2. MAIN CONCLUSIONS - 2.1 ACHIEVEMENT OF SAFEGUARDS OBJECTIVES (NON-DIVERSION); 2.2 EFFECTIVENESS OF SAFEGUARDS.

QUOTE. THIS SECTION WILL GIVE AN OVERALL ASSESSMENT OF THE DEGREE TO WHICH SAFEGUARDS OBJECTIVES WERE ACHIEVED AND THE EFFECTIVENESS OF SAFEGUARDS, BASED ON INTERPRETATION OF THE INFORMATION OBTAINED BY THE AGENCY IN IMPLEMENTING SAFEGUARDS.

QUOTE 3. MAIN RECOMMENDATIONS - THIS SECTION WILL SUMMARIZE THE IMPROVEMENTS CONSIDERED TO BE NECESSARY, BOTH IN STATES' SYSTEMS AND THE AGENCY'S PROGRAMME, AND INDICATE AREAS IN WHICH FUTURE DEVELOPMENT WORK SHOULD BE UNDERTAKEN.

QUOTE 4. CONCLUSIONS AND RECOMMENDATIONS RELEVANT TO STATES - 4.1 CLASSIFICATION OF STATES - 4.1.1 - STATES WITH POWER REACTORS AND BULK RECEIVING FACILITIES; 4.1.2 - STATES WITH POWER REACTORS AND RESEARCH FACILITIES; 4.1.3 - STATES WITH RESEARCH ACTIVITIES ONLY.

QUOTE 4.2 INSPECTORATE'S INTERPRETATION OF QUANTITATIVE INFORMATION FOR STATES - 4.2.1 - COMPLETENESS OF THE AGENCY'S SAFEGUARDS ACTIVITIES; 4.2.2. - NUCLEAR ACTIVITIES NOT SUBJECT TO SAFEGUARDS; 4.2.3. - FEATURES OF STATES' SYSTEMS OF ACCOUNTING AND CONTROL OF NUCLEAR MATERIAL; 4.2.4 - ATTAINMENT OF SAFEGUARDS VERIFICATION OBJECTIVES.

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PAGE 01 IAEA V 00877 02 OF 02 031937Z
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INFO OCT-01 IO-13 ISO-00 ERDA-05 ACDA-07 CIAE-00 INR-07
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R 031453Z FEB 77
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LIMITED OFFICIAL USE SECTION 2 OF 2 IAEA VIENNA 0877

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QUOTE 4.3 SUMMARY OF QUANTITATIVE CONCLUSIONS.
4.4 QUALITATIVE CONSIDERATIONS AND CONFIDENCE
REGARDING NON-DIVERSION.
4.5 GENERAL RECOMMENDATIONS FOR IMPROVEMENT OF SAFE-
GUARDS.

QUOTE. THIS SECTION WILL GIVE, FOR THE CLASSES OF
STATES INDICATED, ASSESSMENTS OF:
THE COMPLETENESS OF THE AGENCY'S SAFEGUARDS ACTIVITIES
WITHIN STATES, WITH REGARD TO COVERAGE OF THE FUEL
CYCLE, ADEQUANCY OF FLOW VERIFICATION AND PHYSICAL
INVENTORY VERIFICATION;
THE INFLUENCE OF SAFEGUARDS EFFECTIVENESS OF ANY
NUCLEAR ACTIVITIES NOT SUBJECT TO SAFEGUARDS;
THE DEGREE OF DEVELOPMENT OF STATES' SYSTEMS OF
ACCOUNTANCY AND CONTROL OF NUCLEAR MATERIAL
THE EXTENT TO WHICH SAFGUARDS OBJECTIVES WERE
ACHIEVED.

QUOTE. THE QUANTITATIVE CONCLUSIONS WHICH CAN BE DRAWN
FROM THE SAFEGUARDS INFORMATION WILL BE SUMMARIZED
AND THE EFFECT OF QUALITATIVE FACTORS WILL BE
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PAGE 02 IAEA V 00877 02 OF 02 031937Z

ASSESSED SO THAT A STATEMENT OF CONFIDENCE REGARDING

THE NON-OCCURRENCE OF DIVERSION CAN BE MADE. RECOMMENDATIONS FOR THE IMPROVEMENT OF STATES' SYSTEMS AND OF SAFEGUARDS EFFECTIVENESS WILL CONCLUDE THIS SECTION. THE ANONYMITY OF STATES WILL BE PRESERVED THROUGHOUT.

QUOTE 5. CONCLUSIONS AND ACTION PLANS RELEVANT TO FACILITY TYPES - 5.1 LIGHT WATER REACTORS; 5.2 - ON-LOAD REFUELLED REACTORS; 5.3 - NATURAL AND LOW-ENRICHED URANIUM CONVERSION AND FUEL FABRICATION; 5.4 - HIGH-ENRICHED URANIUM FABRICATION; 5.5 - PLUTONIUM FABRICATION AND STORAGE; 5.6 - CRITICAL FACILITIES; 5.7 - RESEARCH REACTORS.

QUOTE. FOR EACH OF THE FACILITY TYPES LISTED THIS SECTION WILL GIVE: (A) AN EVALUATION OF THE SIGNIFICANCE OF MATERIAL UNACCOUNTED FOR (MUF) (APPLICABLE ONLY TO BULK PROCESSING FACILITIES). THIS WILL INCLUDE MAGNITUDES OF REPORTED MUF AND ITS UNCERTAINTY, WHERE AVAILABLE; WHETHER MUF COULD BE VERIFIED; WHETHER MUF COULD BE INTERPRETED AS PROCESS-RELATED AND WHETHER THE MUF WAS OF SAFEGUARDS SIGNIFICANCE; (B) AND ASSESSMENT OF THE EFFECTIVENESS OF VERIFICATION ACTIVITIES. THIS WILL INCLUDE A JUDGEMENT ON THE DIVERSION POSSIBILITIES IN THE LIGHT OF THE CURRENT SAFEGUARDS TECHNICAL OBJECTIVES, ASSUMING THE USE OF VARIOUS CONCEALMENT METHODS; (C) ACTION PLANS, BASED ON THE INFORMATION OBTAINED AND THE RESULTING JUDGEMENT OF EFFECTIVENESS, FOR THE MEASURES NEEDED TO IMPROVE SAFEGUARDS PROCEDURES, WITH AN ESTIMATE OF THE INCREASED INSPECTION EFFORT INVOLVED, IF REQUIRED.

QUOTE 6. STATISTICS ON INSPECTION EFFORT - AGGREGATED DATA WILL BE GIVEN RELATING TO GROUPS OF FACILITIES OF THE SAME TYPE, THE MAXIMUM ROUTINE INSPECTION EFFORT PERMITTED BY THE SAFEGUARDS AGREEMENTS, THE INSPECTION EFFORT ESTIMATED NECESSARY FOR THE SPECIFIC FACILITIES INVOLVED AND THE LIMITED OFFICIAL USE

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PAGE 03 IAEA V 00877 02 OF 02 031937Z

INSPECTION EFFORT ACTUALLY APPLIED IN OBTAINING THE RESULTS REPORTED.

5. QUOTE ANNEX II - TECHNICAL AND STATISTICAL DATA SERVING AS A BASIS FOR THE SSIR.

QUOTE. DATA WILL BE CLASSIFIED AS FOLLOWS:

1. SUMMARIZED VERIFICATION INFORMATION - 1.1 - SCOPE OF SAFEGUARDS ACTIVITIES; 1.2 - RESULTS OF VERIFICATION PROCEDURES; 1.3 - FACTORS REDUCING SAFEGUARDS EFFECTIVENESS.

2. STATISTICS RELATING TO SAFEGUARDS INSPECTION ACTIVITIES.

3. STATISTICS RELATING TO CONTAINMENT AND SURVEILLANCE MEASURES.

4. STATISTICS RELATING TO SAFEGUARDS ACCOUNTANCY REPORTS.

QUOTE. FOR EACH OF THE FACILITY TYPES REFERRED TO IN THE SSIR SUMMARIZED VERIFICATION INFORMATION WILL BE OBTAINED UNDER THE FOLLOWING FOR HEADINGS:

QUOTE. SCOPE OF SAFEGUARDS ACTIVITIES (WHICH INCLUDES THE NUMBER OF FACILITIES INSPECTED, THE AMOUNT OF MATERIAL SAFEGUARDED, AND THE INSPECTION EFFORT INVOLVED);

QUOTE. PURPOSE OF VERIFICATION ACTIVITIES;

QUOTE RESULTS OF VERIFICATION PROCEDURES (WHICH INCLUDES EXAMINATION OF RECORDS, MEANS BY WHICH NUCLEAR MATERIAL IS VERIFIED, AND APPLICATION OF CONTAINMENT AND SURVEILLANCE MEASURES); AND QUOTE. FACTORS WHICH REDUCE SAFEGUARDS EFFECTIVENESS (INCLUDING STATUTORY AND OTHER LIMITATIONS,

NON-ACCESSIBILITY OF FACILITIES OR MATERIAL, MALFUNCTIONING OF EQUIPMENT, NON-AVAILABILITY OF NECESSARY MEASURING TECHNIQUES, NON-AVAILABILITY OF ESSENTIAL DATA). LIMITED OFFICIAL USE

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PAGE 04 IAEA V 00877 02 OF 02 031937Z

QUOTE. STATISTICS ON SAFEGUARDS ACTIVITIES SUMMARIZE OVERALL DATA ON SAMPLE TAKING AND USE OF NON-DESTRUCTIVE MEASUREMENTS IN INSPECTIONS. STATISTICS ON CONTAINMENT AND SURVEILLANCE DEVICES INCLUDE INFORMATION ON DIFFERENT TYPES OF CAMERA ASSEMBLIES, THE NUMBER INSTALLED, TIME IN SERVICE AND NUMBER OF FAILURES. THE NUMBER OF SEALS USED IS ALSO INCLUDED. STATISTICS RELATING TO REPORTS INCLUDE INFORMATION RELATING TO TIMELINESS OF REPORTS. END QUOTE.

6. MISSION ASSURED THAT THE DRAFT DOCUMENT REPORTED HEREIN IS A FINAL DRAFT, AND THAT THE FINAL GOV WILL BE IDENTICAL. MISSION WILL REPORT ANY CHANGES FROM DRAFT AND ANY MISSION COMMENTS WHEN FIANL DOCUMENT IS DISTRIBUTED. STONE

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Message Attributes

Automatic Decaptioning: X
Capture Date: 01-Jan-1994 12:00:00 am
Channel Indicators: n/a
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Concepts: REPORTS, TEXT, NUCLEAR SAFEGUARDS
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Disposition Approved on Date:
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Disposition Date: 22 May 2009
Disposition Event:
Disposition History: n/a
Disposition Reason:
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